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VA MEDICAL CENTER
VA NTX HEALTHCARE SYSTEM
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DALLAS TX 75216
PO#: 549-B20178

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1 M4300AA

Optima MR430s 1.5T

Optima MR430s 1.5T Dedicated MRI System

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1.5 Tesla musculoskeletal MRI unit is designed specifically for imaging of the extremities; hand, wrist, elbow, foot, ankle, and knee. The unique, open magnet design provides high field resolution imaging optimized for the extremities and can be sited in as little as 222 sq. ft. of space.

Magnet System:

- 1.5 Tesla active shield, superconducting magnet, with passive shims.
- Homogeneity: 16cm diametrical spherical volume.
- Fringe field: 5 Gauss line 1.85m axial x 1.15m radial.
- Field stability: < 0.1 ppm/hr.
- Magnet weight: < 745 lbs.

Gradient System:

- 70 mT/m coil strength.
- 300 T/m/s slew rate.
- 350 microseconds rise time.
- Patient friendly, quiet technology: < 100 dB(A).

RF Quadrature Transmit/Receive:

- Frequency: 63.8 MHz.
- RF power: 2,000W peak rms, 75W average.
- Image BW: Variable 5kHz - 118kHz.
- Preamp noise fig: < 0.5 dB

RF Coils Included:

- 180 mm RF Coil: Removable quadrature volume, transmit and receive coil for lower extremity, such as foot, ankle, and knee.
- 160 mm RF Coil: Removable quadrature volume, transmit and receive coil for upper or lower extremity, such as knee, foot, and large elbow.
- 123 mm RF Coil: Removable quadrature volume, transmit and receive coil for upper extremity, such as hand, wrist, and elbow.

Computer System:

- PC based, Core 2 Duo Processor, 2.4 GHz minimum.
- 80 GB removable hard drive host computer.
- 400W power supply.
- Windows XP embedded OS with firewall security protection.
- Anti-Virus software compatibility.
- 9.4 GB total (4.7 GB each side) DVD-R/W long-term archival system.
- PC keyboard and serial mouse.
- 19 inch LCD panel Monitor.
- Reconstruction: 2D < 200 msec/image, 3D < 1 sec/plane.

Imaging Capabilities:

- Spin Echo and Fast Spin Echo.
- Gradient Echo.
- Driven Equilibrium Sequences.
- 2D and 3D.
- Inversion Recovery.
- Fat Suppression.
- RF Spoiling.
- Spatial Saturation.
- Flow Compensation.
- Automatic Sequential Scans.
- Magnetization Transfer.
- Single and Double Oblique imaging with use of graphical slice selection.
- Slice Interleave.
- Auto Minimum TE.
- No Phase Wrap.
- Rectangular FOV.
- 4cm - 16cm FOV in 1mm increments.
- Slice thickness: 2 mm-10 mm in 0.1 mm increments for 2D, and 0.5 mm-10 mm in 0.1 mm increments for 3D.
- Variable matrix from 64 to 512 in phase and frequency.

Image Review:

- Auto display.
- Multiple image display.
- Window/level.
- Pan/zoom.

- ROI.
- Annotate.
- Measurements.
- Multi planar reformat.
- Simultaneity of scan.
- Reconstruction.
- Image Display.
- Filming.
- Archiving.
- DICOM transfer.
- DICOM Worklist for transfer of patient data from facility information system to MSK Extreme.

Ergo Patient Handling System: Manually positioned, free floating cushioned chair with lock-in-position brakes, adjustable seat and back inclination. Supports patient weight up to 350 lb.

Ergo Patient Ottoman: Ergonomically designed patient ottoman improves comfort and stability for imaging knees, ankle/foot and wrist.

Magnet Monitoring Unit (MMU): Sentry remote magnet monitoring system with integrated auto sensor circuitry and virtual magnet monitoring unit enhances remote surveillance with

improved direct access for service monitoring via Internet/phone.

CD Drive with Read/Write Capability: Transfers patient study to CD, and includes PC compatible viewer.

2	1	M4300AR	60 Hz Compressor 60 Hz Compressor
3	1	M4300BE	1.5T 75' Console Cable Kit 1.5T 75' Console Cable Kit
4	1	M4300AY	1.5T 25' Compressor Cable Kit 1.5T 25' Compressor Cable Kit
5	1	M4300AW	1.5T 25' Penetration Panel Cable Kit 1.5T 25' Penetration Panel Cable Kit

6	1	M4300AZ	10 meter Flexline Kit 10 meter Flexline Kit
7	1	M4300AP	MSK, 500 ml QA Phantom MSK, 500 ml QA Phantom
8	2	M4000AZ	RF Coil Holder (Supports 3 Coils) RF Coil Holder (supports 3 coils) Mounts on the wall. Mounting screws and instructions are included. Each coil holder supports 3 coils. Quantity of 2 is needed to hold all 6 coils.
9	1	M4300CA	Language Kit - English Optima MR430s Language Kit - English
10	1	M4300AD	1.5T MR430s 80mm High-Res RF Coil 1.5T MR430s 80mm High-Res RF Coil Provides maximum SNR, excellent image quality, and patient comfort for imaging small extremities, such as hand, fingers and wrist.
11	1	M4300AE	1.5T MR430s 100mm High-Res RF Coil 1.5T MR430s 100mm High-Res RF Coil Provides maximum SNR, excellent image quality, and patient comfort for imaging small to medium size extremities, such as hand, wrist and elbow.
12	1	M4300AF	1.5T MR430s 145mm High-Res RF Coil 1.5T MR430s 145mm High-Res RF Coil Provides maximum SNR, excellent image quality, and patient comfort for imaging medium size extremities, such as elbow, foot, ankle, and small knee.
13	1	E8823AB	Coated Knee Rest - 7 in. x 15.25 in. x 28 in. Coated Knee Rest - 7 in. x 15.25 in. x 28 in. This Polyscan-coated knee rest measures 7 in. x 15.25 in. x 28 in and is the same as the knee rest provided with the E8823A MR positioning kit...H
14	1	E8823AD	Coated Extremity Rest - 6.5 in. diameter x 11.5 in. Coated Extremity Rest-6.5 in. diameter x 11.5 in

This Polyscan-coated extremity rest measures 6.5 in. diameter x 11.5 in. and is the same as the extremity rest provided with the E8823A MR positioning kit...H

15 1 E8823AH

Coated Rectangle Elbow Pads - Set of 2

Coated Rectangle Elbow Pads - Set of 2

This set of 2 Polyscan-coated elbow pads measure 0.5 in. x 9 in. x 19.75 in. and are the same as the elbow pads provided with the E8823A MR positioning kit...H

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TiP ONI MSK Extreme Training 6-Day Onsite Plus 10 Hour TVA

TiP 6-Day Onsite Plus 10 Hour TVA ONI Training

6-day onsite and 10 hour TVA training for ONI 1.5T or ONI 1.0T MSK Extreme MR scanner. Training is delivered in 2 visits, one 4 day visit and one 2 day follow-up visit, 8AM to 5PM Monday through Friday. Days are provided consecutively and include T&L expenses. TVA is delivered in one hour increments.

This training program must be scheduled and completed within 24 months after the date of product delivery.

Item No.	Qty	Catalog No.	Description
17	1	E8823M	Magnacoustics Genesis Ultra Music System for MR
			Magnacoustics Genesis ULTRA Communication & Music System
			The Magnacoustics Genesis ULTRA is the only MRI Communication & Music System to interface directly with GE's MRI hardware and software. This allows software driven Auto Voice Commands from

GE's computer to be delivered directly into the patient's ears for breath-hold sequences. This same interface allows the Technologist to talk directly to the patient through the console Mic even while the scan is in progress. The Genesis ULTRA also features an exclusive Patient Ready Signal. By simply depressing a small button on the handheld control an audible and visual signal is transmitted to the Technologist indicating the patient's readiness for the scan to begin. This simple step streamlines the breath-hold exam which amounts to approximately 30% of all exams. Patient Handheld Volume and Media Selection Controls with Voice Feedback interface with an FM/AM stereo, CD player, and iPod interface. This distracts even the most apprehensive of your patients by allowing them to be in control of their own environment. Additionally, the Auto Gain feature automatically raises and lowers the volume level for the patient based on the Sound Pressure Level of the MRI. Magnacoustics also provides the only patented 8-driver transducer that provides the highest sound directly to the patients ears with the MagnaLink Headset System. This patented system includes a stethoscope-style headset with the MagnaPlug (replaceable earplug) that provides 29dB of attenuation and complies with GE Healthcare MR Safety Guide Operator Manual.

The Genesis ULTRA's See-In-the-Dark GUI Electroluminescent Backlit Technologist Control Unit enhances operation in the normally low-lit MRI environment allowing the Technologist to operate the entire system with the touch of a button.

The Genesis ULTRA includes an integral interface for fMRI with built-in input for audio stimulation and output for responses...E

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MR Coil Cart

MR Coil Cart

FEATURES/BENEFITS

- Holds CTL, NV, brain, extremity, body and shoulder coils
- Designed to match the scanner, holds 6 coils
- Four swiveling, locking casters for easy movement

SPECIFICATIONS

- Measures 48" L x 32" W x 41" H
- Weighs 130 lbs.